

**AMENDMENTS TO THE CLAIMS**

**Listing of Claims:**

1. (Currently amended) A process for preparing a hydroxylation catalyst by
  - i) embedding a cytochrome P450 monooxygenase in a sol-gel matrix,
  - ii) embedding an enzymatic NADPH-regenerating system in a sol-gel matrix,and combining the two components i) and ii),  
  
or unless they were already mixed together before the embedding a mixture of a cytochrome P450 monooxygenase and an enzymatic NADPH-regenerating system in a sol-gel matrix.
2. (Currently amended) A The process as claimed in claim 1, wherein enzymes which had originally been isolated from the genus Bacillus are used as monooxygenases.
3. (Currently amended) A The process as claimed in claim 2, wherein the monooxygenases have been isolated from Bacillus megaterium.
4. (Original) A preparation comprising a cytochrome P450 monooxygenase and an enzymatic NADPH-regenerating system in a sol-gel matrix.
5. (Currently amended) A process for the enzymatic hydroxylation of a substrate by reacting the substrate with a hydroxylation catalyst which can be prepared by the process as claimed in claim 1.
6. (Currently amended) A The process as claimed in claim 5, wherein  $\beta$ -ionone is employed as substrate.